

L 33990-65

ACCESSION NR: AP5007650

are known functions from $L_2[(0, \omega); \rho]$. Let B be a square matrix of order s of the form $B = (B_1, \dots, B_N)$, where

$$B_j = \begin{pmatrix} \Phi_1(x_j) & \dots & \Phi_1^{(j-1)}(x_j) \\ \Phi_2(x_j) & \dots & \Phi_2^{(j-1)}(x_j) \\ \dots & \dots & \dots \\ \Phi_s(x_j) & \dots & \Phi_s^{(j-1)}(x_j) \end{pmatrix} \quad (2)$$

For existence and uniqueness of the solution of problem (1) for arbitrary $\psi_k(\rho)$, it is necessary and sufficient that the determinant $\det B$ is not equal to zero. When this condition is satisfied, the solution depends continuously on f and ψ_k . "The authors express their unbounded gratitude to Professor S. G. Mikhlin for his constant attention to and discussion of the work." Orig. art. has: 7 formulas.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova
(Leningrad State University)

Card 2/3

L 33990-65

ACCESSION NR: AP5007650

SUBMITTED: 17Sep64

ENCL: 00

SUB CODE: MA

NO REF SOV: 001

OTHER: 000

Card 3/3

LAVROVA, A.P., kand. tekhn. nauk; GNOYEVVOY, P.S., inzh.; KALENOVA, M.S., starshiy nauchnyy sotrudnik; GUSEVA, A.N., mladshiy nauchnyy sotrudnik; MOROZOVA, L.I., mladshiy nauchnyy sotrudnik; KHARITONOV, V.A., inzh.; KANAREVSKIY, A.A., inzh.; MAZYAKIN, A.V., inzh.; LISHFAY, V.M., inzh.; IL'YASHENKO, M.A., kand. veter. nauk; RYNDINA, V.P., inzh.; LOGINOVA, M.M., mladshiy nauchnyy sotrudnik; CHUDINA, S.A., mladshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., starshiy nauchnyy sotrudnik; KARGAL'TSEV, I.I., assistant; MIKHAYLOVA, A.Ye., mladshiy nauchnyy sotrudnik; KARPOVA, V.I., mladshiy nauchnyy sotrudnik; MERKULOVA, V.K., mladshiy nauchnyy sotrudnik; POLETAYEV, T.N., mladshiy nauchnyy sotrudnik

Study of the heat treatment conditions of smoked and cooked sausage. Trudy VNIIMP no.16:24--63 '64. (MIRA 18:11)

1. Kafedra tekhnologii Moskovskogo tekhnologicheskogo instituta myasnoy i molochnoy promyshlennosti (for Kargal'tsev).

MAZYARKA, S. M., Candidate Med Sci (diss) -- "Sanitary-hygiene problems of urban residential construction in the Polish People's Republic". Moscow, 1959. 14 pp (First Moscow Order of Lenin Med Inst im I. M. Sechenov), 200 copies (KL, No 23, 1959, 172)

BARTNINKAS, J.; MAZYLIS, A.; ORVYDAS, L.; GLEBAVICIENE, S., red.

[Protecting young stock from diseases] Gyvulių prieauglio
apsaugojimas nuo susirgimų. Vilnius, Leidykla "Mintis,"
1965. 65 p. [In Lithuanian] (MIRA 18:7)

L 17598-66 EWT(d)/T/EWP(1) ISP(c) GG/BB/JXT(BF)/GS

ACC NR: AT6005577

SOURCE CODE: UR/0000/65/000/000/0184/0207

AUTHOR: Barashko, A. S.; Kovalevskiy, V. A.; Mazyra, Yu. S.; Netrebenko, K. A.; Semenovskiy, A. G.

ORG: none

16-44
67
0+1
TITLE: The correlation reading automaton with a shifting register (ChARS)

SOURCE: AN UkrSSR. Chitayushchiye avtomaty i raspoznavaniye obrazov (Reading devices and pattern recognition). Kiev, Naukova dumka, 1965, 184-207

TOPIC TAGS: pattern recognition, data processing, data correlation, automaton, reading machine

ABSTRACT: The authors developed a reading automaton with a shifting register (ChARS) which they subsequently tested in several tube or transistorized versions. The device can process no less than 200 bits/sec, and error probability is no more than 0.01%. The device requires some 2500 parts. The article describes the appropriate algorithm, principles for the engineering realization of this algorithm, the photoelectric component

Card 1/2

L 17598-66

ACC NR: AT6005577

and the mechanism for pattern advance, the shifting register, the standard-containing block, the extremum indication block, and the control unit. General tests were carried out in conjunction with the Kiev computer. The experimental model is now being used for the accumulation of statistical data needed for the determination of recognition reliability. The results are printed on the AEPU-45 electric typewriter. Orig. art. has: 16 formulas, 12 figures, and 1 table. [08]

SUB CODE: 09 / SUBM DATE: 3Aug65 / ORIG REF: 005 / ATD PRESS: 404

Card 2/2 nat

MAZYEV, O.A., kand.med.nauk (Ashkhabad)

Work of the nurse in a traumatology department. Zdrav. Turk.
7 no.5:35-37 (41) May'63. (MLA 16:8)
(NURSES AND NURSING)

3339 MAZYNKEVICH, I. V.

Metodicheskie ukazaniya k provedeniyu laboratornykh rabot. po Kursu
"Gidrvlika i nasosy." Sost. I. V. Mazyukevich. L., 1954. 46, (19)
S. S. Chert. 30 sm. (Leningr. Tekhnol. In-t Kholodil'noy.

MAZYRA, L.

Correspondence courses for secondary technical specialists employed
in the petroleum industry. Izv. vys. ucheb. zav.; neft' i gaz 2
no.8:62 '59. (MIRA 12:11)

1. Direktor Vsesoyuznogo neftyanogo tekhnika.
(Saratov--Petroleum engineering--Study and teaching)

MAZYRA, Yu.S.

Blocking oscillator with an interference stable output.
Zbir. prats' z obchys. mat. i tekhn. 2:114 '61.

(MIRA 15:2)

(Oscillators, Electron-tube)

MAZYRIN, I.V. [deceased]; MAZYRIN, A.I., kand. tekhn. nauk; PIRIN, I.V.,
kand. tekhn. nauk, retsenzent; BYSTRITSKAYA, V.V., inzh.,
red.; SMIRNOVA, G.V., tekhn. red.

[Lubrication devices for machinery] Smazochnye ustroistva
mashin. Izd. 2., perer. i dop. Moskva, Mashgiz, 1963. 246 p.
(MIRA 16:6)

(Machinery--Lubrication)

MAZYRIN, I. V.

MACHINERY

DECEASED
c. '63

1964

MAZYRIN, Vyacheslav Prokop'evich; ROZIN, A.I., inzh., retsenzent;
KITAYEV, V.I., inzh., red.; DUGINA, N.A., tekhn.red.

[Abrasive cutting tools; reference manual] Abrazivnyi
instrument; spravochnoe posobie. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit.lit-ry, 1959. 98 p. (MIRA 12:9)
(Metal-cutting tools)

1. ROZANOV, L. N., OMERVANSKIY, I. V., KULAKOVA, Z. N., MAZYUK, V. V.
2. USSR (600)
4. Geology - Buguruslan District
7. Reinterpretation and dissemination of the electric geophysical exploration materials of 1936-1943 and their coordination with the data of the geological prospecting activities in the Buguruslan petroleum district. [Abstract.]
Izv. Glav. uпр. geol. fcn. no. 3. 1947.
9. Monthly Lists of Russian Accessions, Library of Congress, March 1955, Unclassified.

KAMANIN, L.G. [Kamanin, L.IU.]; MAZYUKOVICH, D.P. [Maziukovich, D.P.]
[translator]; NEZHNIPAPA, V.Ya. [Nezhnypapa, V.IA], red.;
KIR'YAKOV, Yu.F., red. kart; GRIBOVA, G.I. [Hrybova, H.I.], tekhn.
red.

[First explorers of the Far East] Pershi doslidnyky dalekoho skhodu.
Kyiv, Derzh. uchbovo-pedagog.vyd-vo "Radiants'ka shkola," 1955. 212 p.
(Soviet Far East—Discovery and exploration)

1ST AND 2ND SECTIONS										3RD AND 4TH SECTIONS									
PROCESSING AND PROPERTIES INDEX																			
21 The relation of the basic factors of the ammonia synthesis to the rate of gas flow. V. L. Volkov and L. V. Maryutkevich. <i>J. Chem. Ind. (U. S. S. R.)</i> 196, No. 2, 31-7 (1960).—Equations are derived for calcg. the relation of productivity of app. to amt. of circulating gas, and of vol. of gas, vol. of catalyst zone and temp. of outgoing gases to the rate of gas flow. The equations are applied at pressures of 300 and 850 atm. and a technical-economic discussion of the effect of various factors is given. H. M. Leicester																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 2ND SECTIONS										3RD AND 4TH SECTIONS									
1ST AND 2ND SECTIONS										3RD AND 4TH SECTIONS									

MAZYUKOVICH, J.

Ammonia

Study of the process of condensing ammonia vapors on a vertical surface.
J. Mazyukovich. Khol. tekhn. 29 No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED

MAZYUKHICH, I.V., kand. tekhn. nauk, dots.

~~Condensation of vapors in the presence of noncondensable gases.~~

Trudy IZIKHP 5:56-60 '54.

(MIRA 11:3)

(Gases)

MAZYUKEVICH, I.

DANILOVA, G., dotsent, kandidat tekhnicheskikh nauk; MAZYUKEVICH, I.,
dotsent, kandidat tekhnicheskikh nauk.

Examining the beiling process of some refrigerants. Khel.tekh.
31 no.2:62-65 Ap-Je '54. (MLBA 7:7)
(Refrigerants)

MAZYUKEVICH, I. V.

AID P - 2398

Subject : USSR/Engineering

Card 1/1 Pub. 110-a - 12/15

Author : Mazyukevich, I. V., Kand. Tech. Sci.

Title : ~~Research on ejection properties of flowing liquid film~~
Research on ejection properties of flowing liquid film

Periodical : Teploenergetika, 7, 53-55, J1 1955

Abstract : The article discusses tests made with water and air flowing through the condenser and the relation between heat transfer, the amount of air ejected by the surface water flow, the contact surface and the velocity of the flow. Two diagrams. Three Russian references 1944-1953.

Institution: Leningrad Technological Institute of the Refrigeration Industry

Submitted : No date

MAZYUKOVICH, I.V., kandidat tekhnicheskikh nauk.

Steam condensation in the presence of noncondensable gases. Trudy
LTIKHP 11:109-114 '56. (MLBA 10:6)

1. Kafedra protsessov i apparatov.
(Expansion (Heat)) (Gases)

MAZYUKOVICH, I.V.

~~The jet properties of falling liquid film surfaces.~~
~~Mazyukovich, Irady Leningrad, Technol. Inst. Khimich.~~
~~Pril. 11, 115-24 (1956).~~ — A liquid film descending the interior wall of a vertical tube drags along some of the gas from the core region. The extent of this windage or induced flow was measured by expt. at varying flows with varying of between liquid and gas streams in the air-H₂O and air-NH₃-H₂O systems. Math. analysis results in an explicit but approx. solution that gives results about 50-100% too high.
 H. T. Kaudner

JR
 net

2

MAZYUKOVICH, I.V.

Experimental study of the heat exchange during the condensation of ammonia vapors from an air mixture in a horizontal tube. Zhur. prikl.khim. 33 no.5:1060-1068 My '60. (MIRA 13:7)

1. Leningradskiy tekhnologicheskoy institut kholodil'noy promyshlennosti.

(Heat--Transmission) (Ammonia)

SHKODA-UL'YANOV, V., kand.fiz.-matem.nauk; MAZYUKEVICH, M. [Maziukevych, M.],
nauchnyy sotrudnik

Gamma rays. Nauka i zhyttia 12 no.10:36-38 0 '62. (MIRA 16:1)

1. Uzhgorodskiy universitet (for Mazyukevich).
(Gamma rays)

L 16153-63

EWI(1)/BDS/ES(w)-2

AFTIC/ASD/ESD-3/SSD Pub-4

ACCESSION NR: AR3005149

8/0058/63/000/006/V031/V031

SOURCE: RZh. Fizika, Abs. 6 V215

AUTHOR: Mazyukevich, N. P.; Shabalina, L. A.; Shkoda-Ul'yanov, V. A.

TITLE: Critical energies of the elements, calculated by the Belen'kiy-Tamm method

CITED SOURCE: Dokl. i soobshch. Ushgorodsk. un-t. Ser. Fiz.-matem. i istor. n., no. 5, 1962, 30-38

TOPIC TAGS: electron, critical energy, element

TRANSLATION: A table is presented of the critical electron energies²¹ for the majority of the elements of the periodic system, and also for water and air. It is noted that the obtained results differ quite noticeably from the data given by Rossi (High-energy Particles, GITTL, Moscow, 1955). The authors attribute this difference to the fact that in their method, unlike in the calculations by Rossi and others, the density effect is taken into account, and averaging is carried out over the equilibrium spectrum. An approximate formula is given for the calculation of the critical energy of the element as a function of Z; this formula

Card 1/2

L 16153-63

ACCESSION NR: AR3005149

differs from the analogous formula given by Belen'kiy and Ivanenko (RZhFiz, 1961, 4B369). V. Mikhaylov.

DATE ACQ: 15Jul63

SUB CODE: PH

ENCL: 00

Card 2/2

L 12840-65 EWT(m)/EWA(h) SSD/AFWL/AFETR/ASD(a)-5/RAEM(a)/ESD(ss)/ESD(t)
 ACCESSION NR: AT4046100 S/3114/61/000/004/0003/0006

AUTHOR: Mazyukovich, N. P.; Parlag, A. M.; Shkoda-Ul'yanov, V. A.

TITLE: The possibility of using photonuclear reactions¹⁹ to distinguish an oil-water contact

SOURCE: Uzhgorod. Universitet. Doklady* i soobshcheniya. Seriya fiziko-matematicheskikh nauk, no. 4, 1961, 3-6

TOPIC TAGS: oil water interface, photon beam, electron beam, deuterium, photonuclear reaction, prospecting, petroleum detection

ABSTRACT: In previous papers, the use of electron beams in oil prospecting was evaluated on the basis of the theoretical emission of photoneutrons from infinite blocks of water and oil under the influence of a stream of electrons. For lower energy regions, the emission of photoneutrons due to the deuterium in the water and oil and the C^{13} in the oil was calculated. In the present paper, since electron beams are now seldom used, the authors calculate photoneutron emission from the water and oil under the influence of a beam of photons, applying the Belen'kiy-Tamm theory for the energy range 2.25-15 Mev. It was found that the emission of photoneutrons from the oil and water differs only negligibly in the region 2.25-5 Mev. However, if the higher deuterium content in the hydrogen of the oil in comparison

Card 1/2

I 12840-65

ACCESSION NR: AT4046100

with the water is taken into account, then the difference in emissions becomes sufficiently large to distinguish between the oil and the water. Since the difference is still small, and since the threshold for the formation of photo-neutrons from C^{13} is ~ 5 Mev, the most convenient range of photon energies for petroleum prospecting seems to be 7 Mev. "The authors thank M. K. Magdinets and I. D. Orlova for their help in carrying out the numerical calculations." Orig. art. has: 1 figure, 1 table, and 1 formula. 3

ASSOCIATION: Uzhgorodskiy gosuniversitet (Uzhgorod State University)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES, NP

NO REF SOV: 005

OTHER: 002

Card 2/2

MAZYUKEVICH, N.P.; SHABALINA, L.A.; SHKODA-UL'YANOV, V.A., dotsent

Critical energies of elements as calculated by Belen'kii -
Tamm's method. Dokl. i soob. UzhGU. Ser. fiz.-mat. i ist.
nauk no.5:30-38 '62. (MIRA 17:9)

ACC NR: AP6032400

SOURCE CODE: UR/0089/66/021/003/0163/0166

AUTHOR: Dorosh, M. M.; Mazyukévich, N. P.; Shkoda-Ul'yanov, V. A.

ORG: none

TITLE: On the feasibility of an analysis of certain metals for oxygen by recording delayed neutrons produced in the reaction $O^{18}(\gamma, p)N^{17}$

SOURCE: Atomnaya energiya, v. 21, no. 3, 1966, 163-166

TOPIC TAGS: metal analysis, oxygen, photoneutron, particle accelerator, neutron detection

ABSTRACT: The authors point out, first, that photoneutron methods offer certain advantages over chemical analysis or radioactive-tracer techniques, since chemical analysis is not sensitive enough and radioactive procedures call for expensive and cumbersome reactor installations. The recent availability of strong-current accelerators, producing electron beams of 10 -- 100 microamperes and stronger and having small dimensions, or γ quanta with appreciable energy, can be used to irradiate samples containing oxygen. If the sample size is large enough, an electron-photon cascade is produced in it and the resultant radioactive N^{17} , with a half life of 4.15 sec, decays to produce the stable isotope O^{16} and a neutron. These delayed neutrons, which equal the number of O^{18} nuclei in the sample, can be counted to determine the oxygen

Card 1/2

UDC: 543.53

ACC NR: AP6032400

content. The authors present sample calculations for a hypothetical accelerator with 100 microampere current and show that if the measurement time is of the order of 1.5 minutes and the electron energy is ~ 25 MeV, the method permits measurement of oxygen contents of $10^{-4}\%$. The contents in thick blocks of Be, Ti, and Zr. It is concluded that with strong-current accelerators and at medium energies, metals and alloys could be analyzed on a conveyor-belt basis. Orig. art. has: 1 figure, 2 formulas, and 1 table.

SUB CODE: 11,20,12 / SUBM DATE: 24Apr64 / ORIG REF: 014 / OTH REF: 002

Card 2/2

MAZYUKEVICH V. A.

Jul Aug 48

USAR/ Medicine - Microbiology

Medicine - Acidophilous Flora, Action

"Normal Acidophilous Flora of the Intestines, which Ferment Starch," O. K. Palladina, T. A. Krotova, V. A. Mazyukovich, A. A. Anoskina, Leningrad Inst. of Blood Transfusion, 10 pp

"Mikrobiologiya" Vol XVII, No 4

Refers to many unsatisfactory studies of subject. Discloses own studies on possibility of promoting acid formation by intestinal microflora, in which weak fermentative activity was observed. In process of transformation of various cultures, determined that a transformation of lactic acid bacteria series frequently produced a positive accumulation of acidity in starch culture media. However, these intestinal lactobacillus S or R-acidophilus, or Bacteria, Bulgaricus from milk, produced identical results. Gives four tables of experimental results. Submitted 30 June 47.

PA 44/49771

MAZYUKOVICH, V. A.

5619

Polucheniye pishchevykh gidrogenizirovannykh zhirov povyshennogo kachestva.
(Iz opyta raboty Zaporozh. Zhirovogo kombinata i Leningr. Gidrogenizatsionnogo zavoda). Material obrabot. I podgot. K Pechati Vengerovoy N. V. i Mazyukovich, V. A., pri uchastii T. Kaminskogo (I Dr.) Otv. red. Sergeyev, A. G. L., 1954
11, 23s 29sm. (M-vo prom-sti prodovol'stv. Tovarov SSSR. Glavraszhirmaslo. Vses oyuz. Nauk. Issled. in-t zhirov (vniizh) Otmenn opytom novatorov proi-zvidstva, Vyp. 2). 200 kuz. B. 1s. Na obl. avt. ne ukazany.
Steklogr. izd. (54-14325ZH) 664.3

VNIIZH (*All Union Scientific Inst. of Fats*)

SO: Knizhnaya Letopis', Vol. 1, 1955

USSR/Antibiosis and Symbiosis - Antibiotics.

F

Abs Jour : Ref Zhur Biol., No 1, 1959, 758

Author : Palladina, C.K., Mazyukevich, V.A., Danetskaya, E.V.,
Lebedeva, M.A.

Inst : All-Union Scientific Research Institute of Fats

Title : Biological Stimulants of Sour Milk Fermentation

Orig Pub : Tr. Vsesoyuzn. n.-i. in-t zhirov, 1954, v'ip. 15, 150-
177

Abstract : Twenty five literature references.

Card 1/1

- 18 -

MAZYUKOVICH, V.A., kandidat biologicheskikh nauk.

Processing milk for margarine. Masl.-zhir.prom.21 no.7:13-15 '55.
(MLRA 9:1)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Milk--Bacteriology)

RZHEKHIN, V.P., starshiy nauchnyy sotrudnik; BODYAZHINA, Z.I.; VENGEROVA, N.V.; VISHNEPOL'SKAYA, F.A.; GALUSHKINA, N.A.; GAVRILENKO, I.V.; GRAUERMAN, L.A.; IRODOV, M.V.; KARANTSEVICH, L.G.; KREYSINA, R.A.; KUPCHINSKIY, P.D.; LEVIT, M.S.; LEONT'YEVSKIY, K.Ye.; LITVINENKO, V.P.; LYUBCHANSKAYA, Z.I.; MAZYUKEVICH, V.A.; MAN'-KOVSKAYA, N.K.; NEVOLIN, F.V.; POGONKINA, N.I.; POPOV, K.S.; PREMET, G.K.; SARKISOVA, V.G.; SEMENOV, Ye.A.; STERLIN, B.Ye.; SERGEYEV, A.G., kand.tekhn.nauk, obshchiy red.; PRITYKINA, L.A., red.; TARASOVA, N.M., tekhn.red.

[Technical and chemical production control and accounting in the oils and fats industry] Tekhnokhimicheskii kontrol' i uchet proizvodstva v maslodobyvayushchei i zhiropererabatyvayushchei promyshlennosti. Moskva, Pishchepromizdat. Vol.1. 1958. 403 p.

(Oil industries)

(MIRA 13:1)

BODYAZHINA, Z.I.; VENGEROVA, N.V.; GEYSHINA, K.V.; GRAUERMAN, L.A.;
 IRODOV, M.V.; KARANTSEVICH, L.G.; KRAL'-OSIKINA, G.A.;
 KUPCHINSKIY, P.D.; LEONT'YEVSKIY, K.Ye.; LITVINENKO, V.P.;
 LYUBCHANSKAYA, Z.I.; MAZYUKOVICH, V.A.; MAN'KOVSKAYA, N.K.;
 NEVOLIN, F.V.; POGONKINA, N.I.; POPOV, K.S.; PREMET, G.K.;
 RZHEKHIN, V.P., starshiy nauchnyy sotrudnik; SARKISOVA, V.G.;
 SEMENOV, Ye.A.; STERLIN, B.Ya.; TIPISOVA, T.G.; SERGEYEV,
 A.G., kand.tekhn.nauk, red.; PRITYKINA, L.A., red.; GOTLIB,
 E.M., tekhn.red.

[Technochemical control and production accounting in the oils
 and fats industry] Tekhnokhimicheskii kontrol' i uchet proiz-
 vodstva v maslodobyvaiushchei i zhiropererabatyvaiushchei pro-
 myshlennosti. Moskva, Pishchepromizdat. Vol.2. [Special
 methods in the analysis of raw material and semiprocessed and
 finished products] Spetsial'nye metody analiza syr'ia, polu-
 fabrikatov i gotovoi produktsii. 1959. 495 p. (MIRA 13:5)
 (Oil industries) (Oils and fats--Analysis)

MAZYUKOVICH, V.A., kand.biol.nauk

From the foreign patent literature for the oils and fats industry.
Masl.-zhir.prom. 28 no.8:45-46 Ag '62. (MIRA 17:2)

MAZYUKEVICH, V.A., kand. biol. nauk

Manufacture of a new type of margarine. Masl.-zhir. prom. 28
no.10:43 0 '62. (MIRA 16:12)

MAZYUKEVICH, V.A., inzh.

Use of acetoglycerides in various branches of the oils and fats industry. Masl.-zhir. prom. 29 no.10:41-42 O '63. (MIRA 16:12)

BELOV, N.S.; BIRYUKOV, I.V.; VERBLYUDOV, N.N.; GORBUNOVA, M.N.; YESIPOVA, M.M.;
IL'ICHEV, A.I.; IGNAT'YEVA, N.Ya.; KOVACHEVICH, P.M.; LITKIN, A.M.;
LOSKUTOV, V.G.; MAZYUKOV, A.S.; MIROSHNICHENKO, N.Ya.; NEFEDOV, A.Ya.;
OSIPOV, K.V.; OSIPOV, P.M.; PETROV, N.G.; PETRACHKOV, M.I.;
PINEVICH, K.M.; POPOV, B.E.; POTAPOV, P.V.; PRIDEIN, F.Ye.; PUKHOV, A.F.;
CHUSOVITINA, Ye.I.; ANGEL'SKIY, N., tekhn.red.

[The Kuznetsk Basin in the sixth five-year plan] Kuzbass v shestoi
piatiletke. [Kemerovo] Kemerovskoe knizhnoe izd-vo, 1956. 125 p.

(MIRA 10:12)

(Kuznetsk Basin)

BALIBALOV, Ivan Alekseyevich; MAZYUKOV, A.S., red.; GERASEVICH,
Z.A., tekhn. red.

Kemerovo. Kemerovo, Kemerovskoe knizhnoe izd-vo, 1962. 304 p.
(MIRA 16:10)
(Kemerovo)

VOLCHENKO, A.V.; MAZYUKOV, A.S.; PARFENOVA, T.V.; PONOMARENKO,
G.Ya.; PISKUNOVA, Ye.S.; STUKANOV, Ye.N.; YARMAL', A.I.;
KHOLODOV, V.G., red.

[The Donets Basin and the Kuznetsk Basin; collection of
documents on the creative relations between the miners of
Donets and the Kuznetsk coal basins] Donbass-Kuzbass;
sbornik dokumentov o tvorcheskikh svyaziakh gornikov
Donetskogo i Kuznetskogo ugol'nykh bassainov. Donets,
Izd-vo "Donbass," 1964. 148 p. (I RA 18:2)

VYSOTSKAYA, T.V.; LYGALOVA, Z.V.; MAZYUKOV, A.S.; PARFENOVA,
T.V.; SOKOLOV, V.D., red.; CHERNOBROD, M.B., red.;
MOGUTOVA, A., red.

[Party organizations of Kuznets Basin during the years
of the Great Patriotic War, 1941-1945; in two volumes]
Partiinye organizatsii Kuzbassa v gody Velikoi Oteche-
stvennoi voiny (1941-1945 gg.). Kemerovo, Kemerovskoe
knizhnoe izd-vo. Vol.2. 1965. 279 p. (MIRA 19:1)

1. Kommunisticheskaya Partiya Sovetskogo Soyuza. Kemerov-
skiy oblastnoy komitet. Partiynyy arkhiv.

CZECHOSLOVAKIA/U.S.A

①
KRULICH, L., DHARIWAL, A.P.S., MCCANN, S.M.; Physiological
Institute, Faculty of General Medicine, Charles University,
(Fysiologicky Ustav Fak. Vseob. Lek. UK), Prague; Department
of Physiology, School of Medicine, University of Philadelphia,
Philadelphia.

"Hypothalamic Regulation of the Secretion of the Growth Hormone."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 102

Abstract: Insulin hypoglycemia reduces the content of the growth hormone in the hypophysis of rats within an hour. This is followed by a sudden increase in its secretion from the hypophysis. The sudden decrease may be blocked by bilateral electrical lesion in the area of nucl. praemillaris of the hypothalamus. A chronic decrease in content of the hormone will result from this lesion. Other areas of the hypothalamus do not behave in a similar way. An injection of an extract from sheep's eminentia medialis causes a quick and substantial decrease in the growth hormone in the hypophysis. No references. Submitted at "16 Days of Physiology" at Kosice, 29 Sep, 65.

1/1

- 145 -

MCHEDLIDZE, G.A.

Fossil dolphin (*Imerodelphis thabagarii*) of the Sarmatian stage
from the vicinity of Zestafoni. Soob. AN Gruz. SSR 23 no.6:687-694
D '59. (MIRA 13:6)

1. Institut paleobiologii AN GruzSSR, Tbilisi. Predstavleno akademi-
kom L.Sh.Davitashvili.

(Zestafoni region--Dolphins, Fossil)

SOLNTSEV, V.A.; MCHEDLIDZE, G.G.

Simplified nonlinear equations of a traveling-wave tube at
finite values of the amplification parameter. Radiotekh. i
elektron. 11 no.1:58-67 Ja '66. (MIRA 19:1)

1. Submitted September 26, 1964.

MCHEDLISHVILI, G. I., CAND Agr Sci, "IMPROVING THE
FEEDING BASE OF APICULTURE IN LATGALIYA (SOUTHEASTERN
PART OF ¹⁹²LASSR)." TBILISI, 1960. (MIN OF Agr GSSR,
GEORGIAN ORDER OF LABOR RED BANNER Agr INST). (KL,
3-61, 226).

MCHEDLIDZE, G. A

Remains of fossil dolphins from middle Sarmatian sediments in the vicinity of Armavir. Soob. AN Gruz. SSR 24 no. 4: 429-434 Ap '60. (MIRA 13:7)

1. AN Gruz. SSR, Institut paleobiologii, Tbilisi. Predstavleno akademikom L. Sh. Davitashvili.
(Kuban' Valley—Dolphins, Fossil)

MCHEDLIDZE, G.A.

New data on dolphin fossil Iniopsis Caucasica Lyd. Soob. AN Gruz.
SSR 28 no.4:439-441 Ap '62. (MIRA 18:1)

1. AN Gruzinskoy SSR, Institut paleobiologii, Tbilisi. Submitted
February 9, 1961.

MCHEDLIDZE, Joram Andreyevich, mlad. nauchn. sotr., kand. geol.-
miner. nauk; GAERUNIA, L.K., red.

[Fossil Cetacea of the Caucasus] Iskopaemye kitoobraznye
Kavkaza. Tbilisi, Izd-vo "Metsniereba," 1964. 144 p.
(MIRA 17:12)

1. Institut paleobiologii AN Gruz.SSR.

MCHEDLIDZE, G.A.

Remains of proboscideans in the Middle Miocene sediments of western
Georgia. Soob. AN Gruz. SSR 35 no.2:333-338 Ag '64.

(MIRA 17:12)

MCHEDLISHVILI, A. L.

KEKELIDZE, M.A., kandidat tekhnicheskikh nauk; MCHEDLISHVILI, A. L., inzhener;
PEROVA, V.V., inzhener; DUNAYEV, N.Ye., inzhener; TAVROG, B.A., inzhener.

Using Chiatura oxidized manganese ores in open-hearth pig iron burden.
Metallurg. no.9:39-40 S '56. (MLRA 9:10)

1. Institut metalla i gornogo dela Akademii nauk GSSR (for Kekelidze, Mchedlishvili, Perova). 2. Stalinskiy metallurgicheskiy zavod (for Dunayev and Tavrog).
(Cast iron--Metallurgy) (Chiatura--Manganese ores)

MCHEDLISHVILI, G.I. (Tbilisi)

Buckwheat. Priroda 54 no.11:72-75 '65.

(MIRA 18.11)

MCHEDLISHVILI, G. I.

"Modifications in Vascular and Tissue Reactions Caused by the Continuous Action of Acetylcholine," by G. I. Mchedlishvili, Academy of Sciences Georgian SSR, Institute of Physiology imeni I. S. Beritashvili, Tbilisi, Soovshcheniya Akademii Nauk Gruzinskoy SSR, Tbilisi, Vol 17, No 8, 56, pp 753-759

The author reports the results of experiments conducted to determine the modifications caused in vascular and tissue reactions of animals by the protracted action of acetylcholine. That these modifications do take place was established by Beritov and Bakuradze in 1940, Kameron in 1946, and Voronin and I. Gedevanishvili in 1955. Albino rabbits were used in experiments. Acetylcholine was administered into the helix by means of iontophoresis with an anode, by using a weak current. Macrological and micrological studies of the changes in local blood circulation were made. The results of the experiments were as follows: (1) the vascular walls of the helix of the rabbits showed a tendency to adapt themselves to the continued action of acetylcholine; (2) prolonged action of acetylcholine on animal tissues caused inflammation which became more pronounced with the continued action of the drug; (3) acetylcholine affected the course of an aseptic inflammation caused by other factors, and apparently can take part in the processes of the neurohumoral effects on inflammations in the organism.

Sum 1258

MCHEDLISHVILI, G. I:

V. V. Voronin. Arkh. pat., Moskva 12 no.5:89-91 Sept.Oct.1950

1. Tbilisi.

(CIAM 21:1)

44

B.A.

Hemodynamics of the capillary circulation. G. I. Mchedlishvili (*J. Physiol., USSR, 1951, 27, 304-311*).—The capillary circulation was investigated in the frog's tongue and the rabbit's ear by measurement of the size of the vessels and of the linear velocity of the erythrocytes. Alteration of blood supply does not greatly affect the size of the main capillaries, but alters the velocity of flow and the number of active capillaries (capillaries containing erythrocytes). The non-active capillaries, which are always branches of the "master" capillaries appear in two forms, plasma capillaries containing no erythrocytes and dormant capillaries completely closed down, and both these can change into active capillaries. Figures are given for the size of the different kinds of capillaries under different conditions of hyperemia and ischemia. D. H. Sarvru.

Dept. Pathol. Physiol., Tbilisi State Med. Inst.

MCHEDLISHVILI, G.I.

Investigations on the mechanism of capillary stasis. Trudy Inst.
fiziol. AN Gruz. SSR 9:279-292 '53. (MLRA 8:9)
(CAPILLARIES, diseases,
stasis)

MCHEDLISHVILI, G.I.
USSR/Medicine - Physiology

FD-940

Card 1/1 Pub 33-23/29

Author : Mchedlishvili, G. I.

Title : Significance of I. R. Tarkhanov's research work regarding capillary blood vessels

Periodical : Fiziol. zhur. 40, ^{no 3} 368-371, May/Jun 1954

Abstract : Physiologist Ivan Romanovich Tarkhanov (Tarkhnishvili), 1846-1906, studied extensively the function of capillaries of the blood and solved thereby many important problems in physiology of circulation. He laid the foundation for the concept that precapillary arteries are "spigots" of blood capillaries with the aid of which the nervous system regulates the intensity of capillary circulation. Eleven Soviet and three non-Soviet references.

Institution : Division of Pathophysiology, Institute of Physiology, Academy of Sciences Georgian SSR

Submitted : October 26, 1953

MCHEDLISHVILI, G.I.

New experimental data on changes in capillary blood circulation.
Soob.AN Gruz. SSR 17 no.6:537-544 '56. (MLRA 9:10)

1. Akademiya nauk Gruzinskoy SSR, Institut fiziologii imeni Akademika I.S. Beritashvili, Tbilisi. Predstavlene pochetnym akademikom W.W. Veroninym.

(BLOOD CIRCULATION) (CAPILLARIES)

Mchedlishvili, G.I.

T-6

USSR/Human and Animal Physiology - Blood Circulation
Vessels.

Abs Jour : Ref Zhur- Biol., No 10, 1958, 46092

Author : Mchedlishvili, G.I.

Inst : Institute of Physiology AS Georgian SSR.

Title : Physiological and Pathological Changes of the Blood
Circulation in the Capillaries Affected by Acetylcholine.

Orig Pub : Tr. In-ta fiziol. AN GruzSSR, 1956, 10, 281-307

Abstract : A series of tests was performed on ear vessels of non-anesthetized rabbits, on tongue vessels of urethane-anesthetized frogs, and on mesenteric vessels of cloral hydrate-anesthetized guinea-pigs and rats. In order to achieve a tissue cholinesterase block, proserin (1.10^{-4}) was added during the tests to the tested acetylcholine (1.10^{-3} - 1.10^{-10}) solution. As 0.1 ml of the I solution

Card 1/2

- 62 -

MCHEDLISHVILI, G.I. (Tbilisi)

Redistribution of erythrocytes in the vascular system. Arkh.pat. 18
no.5:88-89 '56. (MLRA 9:12)

1. Iz patofiziologicheskogo otdela Instituta fiziologii imeni I.S.
Beritashvili AN Gruzinskoy SSR (zav. - pochetnyy chlen AN GSSR prof.
V.V.Voronin)

(ERYTHROCYTES,
redistribution in animals (Rus))

MCHEDLISHVILI, G. I. Doc: Med Sci -- (diss) "Experimental
Investigations of Capillary Blood Circulation." Tbilisi, 1957.
22 pp 21 cm. (Academy of Medical Sciences USSR), 200 copies
(KL, 16-57, 100)

-14-

MCHEDLISHVILI G.I.

EXCERPTA MEDICA Soc.2 Vol.11/4 Physio-biochem-pharm Apr58

1656. MECHANISM OF CHANGES IN CAPILLARY CIRCULATION (Russian text) -
Mchedlishvili G.I. - USP.SOV.R. BIOL. 1957, 43/1 (82-96) Illus. 2

A comprehensive review of older and new concepts of circulatory functions in the capillary bed with some synthetic conclusions. The main factors involved in the regulation are the functional status of precapillaries, the flow through the main capillaries (which influences the flow in secondary capillaries), haematocrit and aggregation of erythrocytes. All these factors are closely interdependent. The possibility of an influence of chemical mediators on the capillary wall is mentioned.

Trčka - Prague

MCHEDLISHVILI, G.I.

MCHEDLISHVILI, G.I.

Recent data on the effect of histamine on the capillaries and
capillary circulation [with summary in English]. Fiziol.zhur.
43 no.10:960-969 0 '57. (MIRA 11:1)

1. Otdel patofiziologii Instituta fiziologii im. I.S.Beritashvili
AN GruzSSR, Tbilisi.

(CAPILIARIES, effect of drugs on,
histamine (Rus))

(HISTAMINE, effects,
on capillaries (Rus))

MCHEDLISHVILI, Georgiy Iosifovich

[Capillary blood circulation] Kapilliarnoe krovoobrashchenie.

Tbilisi, Izd-vo Akad.nauk Gruzinskoi SSR, 1958. 185 p.

(CAPILLARIES)

(MIRA 13:8)

MCHEDLISHVILI, G.I.

Role of the internal carotid and vertebral arteries in the regulation
of cerebral circulation. Fiziol.zhur. 45 no.10:1221-1228 0 '59.
(MIRA 13:2)

1. Institut fiziologii Akademii nauk Gruzinskoy SSR, Tbilisi.
(BRAIN blood supply)

17(1,4)
AUTHOR:

Mchedlishvili, G. I.

SOV/20-124-6-53/55

TITLE:

Investigations of Localization of the "Locking Mechanisms" on the Regionary Arteries of the Brain (Internal Carotids and Vertebral Arteries) (Issledovaniya lokalizatsii "zamykatel'nykh mekhanizmov" na regionarnykh arteriyakh mozga (vnutrennikh sonnykh i pozvonochnykh arteriyakh))

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 6, pp 1371-1374 (USSR)

ABSTRACT:

The cephalic arteries (carotids) and vertebral arteries are contracted in a reflex way as a result of hemodynamic shifts in the venous system of the brain. These are shifts which cause a simultaneous elimination of all venae jugulares (that is to say, with beginning passive hyperemia in the brain). Said reaction reduces the blood supply of the brain considerably. But also the regionary (regionarnyye Pl.) arteries of the brain demonstrate the same compensatory reaction in the case of other disturbances of blood circulation in the brain; finally it was confirmed that the contraction of the latter vessels may be caused by adrenalin. From this result the author has drawn the important conclusion that the arteries mentioned in the title

Card 1/3

Investigations of Localization of the
"Locking Mechanisms" on the Regionary Arteries of the Brain (Internal
Carotids and Vertebral Arteries)

SOV/20-124-6-53/55

play an essential part in the regulation of this circulation. It had to be clarified, however, in which sections of said arteries the concentration may occur, that is to say, where especially the "locking mechanism" is located. For this reason a special method had to be worked out basing on a fixation by 20% formalin in alcohol in vivo (Ref 1). In some cases synthetic latex was introduced into the fixed arteries. Subsequently all head tissues of the animal were corroded in concentrated HCl. By the aid of these preparations the author determined that only certain sections of the regionary arteries of the brain are used to contract considerably. They play without doubt the part of "sphincters" in the organism regulating the blood supply of the brain. However, not in all cases clear results are obtained. On histological series sections and on outlets of both arteries mentioned in the title could be seen that their lumen is contracted on certain

Card 2/3

Investigations of Localization of the SOV/20-124-6-53/55
"Locking Mechanisms" on the Regionary Arteries of the Brain (Internal
Carotids and Vertebral Arteries)

places only (Figs 1-4). Thus the author apparently succeeded
in discovering the sections of arteries which regulate the
blood supply of the brain. There are 4 figures and
10 references, 9 of which are Soviet.

ASSOCIATION: Institut fiziologii Akademii nauk GruzSSR (Institute of
Physiology of the Academy of Sciences, GruzSSR)

PRESENTED: October 27, 1958, by I. S. Beritashvili, Academician

SUBMITTED: October 27, 1958

Card 3/3

MCHEDLISHVILI, G.I.

Vladimir Vasil'evich Voronin; 90th birthday and 70 years of scientific and educational activities. Pat.fiziol.i eksp.terap. 4 no.4:3-6
Jl-Ag '60. (MIRA 14:5)
(VORONIN, VLADIMIR VASIL'EVICH, 1870)

MCHEDLISHVILI, G.I. (Tbilisi)

Changes in the cerebral circulation produced by intra-arterial infusion of blood during the restoration of life processes. Pat.fiziol.i eksp.terap. 4 no.4:14-20 J1-Ag '60. (MIRA 14:5)

1. Iz otdela patofiziologii i morfologii nervnoy sistemy (zav. - pochetnyy akademik AN Gruzinskoy SSR V.V.Voronin) Instituta fiziologii Akademii nauk Gruzinskoy SSR.

(RESUSCITATION)

(BLOOD--TRANSFUSION)

(BRAIN--BLOOD VESSELS)

MCHEDLISHVILI, G.I.; AKHOBADZE, V.A.

Dynamics of changes in cerebral circulation in traumatic brain edema;
experimental study. Vop. neirokhir 24 no. 2:13-19 Mr-Sp '60.

(MIRA 14:1)

(BRAIN—BLOOD VESSELS) (EDEMA)

MCHEDLISHVILI, G.I.

Physiological mechanisms of cerebral circulation during terminal states. Fiziol. zhur. 46 no.10:1210-1217 0 '60. (MIRA 13:11)

1. Institut fiziologii AN Gruzinskoy SSR, Tbilisi.
(BRAIN---BLOOD SUPPLY) (DEATH)

MCHEDLISHVILI, G.I.

Effect of adrenalin on regional arteries of the brain. Biul. eksp.
biol. i med. 49 no. 5:10-15 My '60. (MIRA 13:12)

1. Iz otdela patofiziologii (zav. - pochetnyy akademik AN Gruzinskoy
SSR V.V. Voronin) Instituta fiziologii AN Gruzinskoy SSR, Tbilisi.
Predstavlena akademikom I.S. Beritashvili.
(ADRENALINE) (BRAIN—BLOOD SUPPLY)

MCHEDLISHVILI, G.I.

Independence of mechanisms regulating the lumen of the regional cerebral (internal carotid and vertebral) and pial arteries.
Biul. eksp. biol. i med. 49 no. 6:21-25 Je '60. (MIRA 13:8)

1. Iz otdela patofiziologii (zav. - pochetnyy akademik AN Gruzinskoy SSR V.V. Vorobin) Instituta fiziologii Akademii Nauk Gruzinskoy SSSR, Tbilisi. Predstavlena deystv. chlenom AMN SSSR V.V. Parinym.

(BRAIN--BLOOD VESSELS)

MCHEDLISHVILI, G.I.

Regulatory mechanisms of cerebral circulation. Report No.1: Role
of regional brain arteries (internal carotid and vertebral arteries).
Trudy Inst. fiziol. AN Gruz. SSR 12:121-136 '61. (MIRA 15:2)
(BRAIN BLOOD SUPPLY)

MCHEDLISHVILI, G.I.

"New data on the internal mechanisms of regulation of the cerebral circulation(Function of the system of internal carotid, vertebral and pial arteries.)"

Report submitted, but not presented at the 22nd International
Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

MCHEDLISHVILI, G.I.; AKHOBADZE, V.A.; ORMOTSADZE, L.G. (Tbilisi)

Dynamics of disorders of brain blood circulation and their compensation following temporary occlusion of the aorta.

Pat. fiziol. i eksp. terap. 6 no. 3:217-23 My-Je'62

(MIRA 17:2)

1. Iz otdela patologicheskoy fiziologii i morfologii nervnoy sistemy (zav. - pochetnyy akademik AN GruzSSR V.V. Voronin [deceased]) Instituta fiziologii AN GruzSSR.

MCHEDLISHVILI, G.; GARBULINSKI, T.; GOSK, A.

Researches on functions of the internal carotid arteries. Acta
physiol. polon. 13 no.6:695-704, '62.

1. Department of Physiology, School of Medicine, Wroclaw Director:
prof. dr A. Klisicki and the Department of Patophysiology of the
Institute of Physiology, Georgian Academy of Sciences, Tbilisi
Director: prof. dr G.I. Mchedlishvili.

(CAROTID ARTERIES) (VASOMOTOR SYSTEM) (MYONEURAL JUNCTION)
(SYMPATHETIC NERVOUS SYSTEM)

MCHEDLISHVILI, G.I.; AKHOBADZE, V.A.; ORMOTSADZE, L.G.;

Hemodynamic mechanisms in the compensation of cerebral circulation
during temporary occlusion of the cranial (superior) vena cava.
Fiziol.zhur. 48 no.6:684-691 Je '62. (MIRA 15:8)

1. From the Institute of Physiology, Georgian S.S.R. Academy of
Sciences, Tbilisi.

(BRAIN—BLOOD SUPPLY) (VENAE CAVA)

MCHEDLISHVILI, G.I.; ORMOTSADZE, L.G.

Study of the reflex effects from the venous sinuses to the regional cerebral arteries. Biul. eksp. biol. i med. 53 no.2:9-13 F '62. (MIRA 15:3)

1. Iz otdela patofiziologii (zav. - pochetnyy akademik AN Gruzinskoy SSR V.V. Voronin [deceased]) Instituta fiziologii AN Gruzinskoy SSR. Predstavlena akademikom I.S. Beritashvili.
(BRAIN--BLOOD SUPPLY)
(NERVES, CRANIAL)

MCHEDLISHVILI, G.I.

"Chest-head" preparation for studying cerebral circulation.
Biul. eksp. biol. i med. 53 no.2:123-125 F '62. (MIRA 15:3)

1. Predstavlena akademikom I.S. Beritashvili.
(BRAIN---BLOOD SUPPLY)

MCHEDLISHVILI, G.I.

Mechanisms of the regulation of cerebral circulation.
Report No.2: Functional characteristics of various parts of
the arterial system of the brain. Trudy Inst. fiziol. AN Gruz.
SSR 13:147-160 '63. (MIRA 17:6)

MCHEDLISHVILI, G.I.

(Tbilisi)

Use of differential manometry (particularly Hürthle's method)
in the examination of cerebral blood circulation. Pat fiziol.
i eksp. terap. 7 no. 3: 5-76 Mye-le'o3 (MIRA 17:4)

1. Iz otdela patofiziologii i fiziologii Instituta fiziologii
Akademii nauk Gruzinskoy SSR.

MCHEDLISHVILI, G.I.; AKHOBADZE, V.A.; ORMOTSADZE, L.G.

Dynamics of disorders of the cerebral circulation and
their compensation in a temporary occlusion of the aorta.
Trudy Inst.klin. i eksper. kard. AN Gruz. SSR 8:543-549
'63.

Experimental investigations of cerebral circulation in
a temporary occlusion of the cranial (superior) vena
cava. Ibid.:537-541 (MIRA 17:7)

1. Institut kardiologii i institut fiziologii AN
GruzSSR, Tbilisi.

MCHEDLISHVILI, G.I.; ORMOTSADZE, L.G.

A haemodynamic regulating mechanism compensating for decreased blood supply to the cerebral cortex. *Physiol. bohemoslov.* 12 no.2: 100-105 '63.

1. Department of Pathophysiology and Morphology, Institute of Physiology, Academy of Sciences, Tbilisi, Georgian SSR.
(CEREBRAL CORTEX) (BLOOD VESSELS) (PHYSIOLOGY)
(ISCHEMIA) (BLOOD CIRCULATION) (CEREBRAL ISCHEMIA, TRANSIENT)
(ELECTROENCEPHALOGRAPHY)

MCHEDLISHVILI, G.I.

GARBULINSKIY, T.; MCHEDLISHVILI, G.I.; GOSK, A.

Photohematometric examination of the functions of the neuromuscular apparatus of the internal carotid arteries. Report no.1: Technique of examination and effect of some physiologically active substances. Biul.eksp.biol. i med. 55 no.1:6-11 Ja'63. (MIRA 16:7)

1. Iz kafedry noraml'noy fiziologii (zav. - prof. A.Klissetskiy) Meditsinskoy akademii vo Vrotslave (Pol'sha) i otdela patofiziologii i morfologii (zav. - doktor med.nauk G.I. Mchedlishvili) Instituta fiziologii AN Gruzinskoy SSR. Predstavlena deystvitel'nym chlenom AMN SSSR I.S.Beritashvili.
(CAROTID ARTERIES—INNERVATION)
(AUTONOMIC DRUGS)

MCHEDLISHVILI, G.I.; GARBULINSKIY, T.; GOSK, A.

Photohemotachometric studies on the functions of the neuromuscular apparatus of the internal carotid arteries. Biul eksp. biol. i med. 55 no.2:17-22 F'63. (MIRA 16:6)

1. Iz otdela patofiziologii i morfologii (zav. - doktor med. nauk G.I.Mchedlishvili) Instituta fiziologii Akademii nauk Gruzinskoy SSR i kafedry normal'noy fiziologii (zav. prof. A.Klisetskiy) Meditsinskoy akademii vo Vrotslave (Pol'sha). Prikladnaya depstvitel'nye chlenom ANT SSSR I.S.Beritashvili.
(CAROTID ARTERY—INTERVENTION) (BRAIN—BLOOD SUPPLY)

MCHEDLISHVILI, G.I.

Functional stenosis of the regional arterial system of the brain (internal carotid and vertebral arteries) as a cause of cerebrovascular disorders; experimental studies. Zhur. nevr. i psikh. vol. 64 no.5:663-666 '64. (MIRA 17:7)

1. ~~Odol~~ patofiziologii i morfologii (zaveduyushchiy G.I. Mchedlishvili) Instituta fiziologii AN Gruzinskoy SSR, Tbilisi.

MCHEDIASHVILI, G.I.; NIKOLAYSHVILI, L.S.

Nervous mechanism of the nutritive reactions of pial arteries
supplying blood to the cortex of cerebral hemispheres. Dokl.
AN SSSR 156 no. 4:968-971 Je '64. (MIRA 17:6)

1. Institut fiziologii AN GruzSSR. Predstavleno akademikom
I.S.Beritashvili.

1. 22222-66

ACC NR: AT5024234

SOURCE CODE: UR/3167/65/014/000/0145/0167

AUTHOR: Mchedlishvili, G. I.

ORG: none

TITLE: Intrinsic regulatory mechanisms of cerebral circulation.
Communication III: The neural control of cerebral arteries

SOURCE: AN GruzSSR. Institut fiziologii. Trudy, v. 14, 1965.
Sovremennyye problemy deyatel'nosti i stroeniya tsentral'noy nervnoy
sistemy (Present problems of the activity and structure of the central
nervous system), 145-167

TOPIC TAGS: cerebral circulation, neurohumoral control, circulatory
regulation, arterial regulation, arterial innervation, chemoreceptors,
brain metabolism

ABSTRACT: The author reviews the world literature and his own studies
over a period of years with various colleagues (L. G. Ormotsazda, V. M.
Gabashvili, T. Garbulinskiy and A. Gosk, M. G. Devdariani, and L. S.
Nikolayshvili). The problem of neural control over the cerebral arter-
ies was studied in "head-thorax" preparations under conditions of
normal regulation of cerebral circulation (when impaired cerebral cir-
culation is compensated or blood supply is adjusted to changes in the
Card 1/2

I-22222-66

ACC NR: AT5024234

metabolic requirements of brain tissue), and also when neural stimulation or neurohumoral agents fail to affect normal brain blood supply. It was found that the internal carotid arteries are about as sensitive (threshold doses, magnitude of effect) to the local action of neurohumoral agents (adrenalin, noradrenalin, acetylcholine) as the branches of the external carotid artery. Weak electrical stimulation of the upper cervical sympathetic ganglion produced a definite constriction of the internal carotid artery on the same side. Stronger stimulation closed the artery completely. These results suggest definite neural control of the major cerebral arteries. It was subsequently shown that direct reflex impulses travel from the carotid sinus chemoreceptors to the major cerebral arteries, and that in addition the sensitivity of these arteries to the local action of physiologically active substances is also affected. Study of the reactions of the pial arteries to the occlusion of a relatively large trunk shows the observed dilatation to be neurogenic and independent of the so-called Bayliss effect (myogenic dilatation in response to a drop in intravascular pressure). This has been confirmed by recent experiments utilizing microsurgical techniques which have shown that the nutritional dilation of the pial arteries in response to increased neuron activity in the cortex or to reduced blood supply can only be neural in nature.

[DP]

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 045/ OTH REF: 032

Card 2/2 nat

L 38255-56

ACC NR: AP6028648

SOURCE CODE: UR/0020/66/166/006/1484/1487

AUTHOR: Ingvar, D.; Mchedlishvili, G. I.; Ekberg, R.

ORG: Institute of Physiology, AN GruzSSR (Institut fiziologii AN GruzSSR)

TITLE: Quantitative measurements of blood flow in the cerebral cortex in connection with spasmodic activity ²²

SOURCE: AN SSSR. Doklady, v. 166, no. 6, 1966, 1484-1487

TOPIC TAGS: cerebral cortex, blood circulation, nervous system drug

ABSTRACT: A recently developed quantitative method for measuring the increase of blood flow in the brain, based on measuring in small areas of the cortex, was used to measure blood flow in the parietal cortex associated with intensification of its activity by direct application of strychnine. An attempt was made to compare the number of spasmodic discharges in the cortex with the intensity of cortical blood circulation. It was found that the spasmodic discharges were accompanied by an increase in blood flow, but there was no parallelism between the two phenomena. This article was presented by Academician I. S. Beritashvili on 17 November 1965. Orig. art. has: 2 figures.
[JPRS: 36,932]

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